

Title (en)

PROCESS FOR BURNING LUMPS OF MATERIAL WITH LEAN GAS

Title (de)

VERFAHREN ZUM BRENNEN VON STÜCKIGEM BRENNGUT MIT SCHWACHGAS

Title (fr)

PROCEDE DE COMBUSTION DE MATIERES EN MORCEAUX AU MOYEN D'UN GAZ PAUVRE

Publication

EP 1634026 A1 20060315 (DE)

Application

EP 04722348 A 20040322

Priority

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- DE 10324953 A 20030603

Abstract (en)

[origin: WO2004106828A1] A method for burning lumps of material, in particular limestone, is carried out in a regeneration shaft kiln (3) with at least two kiln shafts (1, 2) interconnected by an overflow line (19) and in which the material to be burned passes through an upper pre-heating zone (8), a central combustion zone (18) and a lower cooling zone (14). Combustion gas with a low calorific value of less than 7.5 megajoules (MJ) per m³ is periodically and alternately supplied to each of the shafts (1, 2) through burner lances (9, 25) after being pre-heated by heat exchange with process gas of the combustion process. The combustion gas is pre-heated in a heat exchanger (21) and/or by means of a surface of the burner lances (9, 25) which extend through the pre-heating zone (8), said surface being enlarged to enhance heat exchange.

IPC 1-7

F27B 1/22; **C04B 2/12**

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

See references of WO 2004106828A1

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DE102020202481A1; WO2020011898A1; LU101654B1; WO2021170592A1

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